MPA NRW.

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Außenstelle Erwitte • Auf den Thränen 2 • 59597 Erwitte • Telefon (0 29 43) 8 97-0 • Telefax (0 29 43) 8 97-33 • E-mail: erwitte@mpanrw.de

Report of the classification of the reaction to fire behaviour
No. 230010820-3
issued 13 December 2016

English version

Sponsor

3M Deutschland GmbH
Carl-Schurz-Straße 1

41453 Neuss
GERMANY

Order

Reaction to fire classification according to DIN EN 13501-1

Date of order:

08 September 2016

Name of the classified building product:

Self-adhesive films named „3M™ Scotchcal Serie 3662-10 laminiert mit Scotchgard Serie 8991"

This report determines the classification of the above-mentioned building product in accordance with the procedure given in DIN EN 13501-1 „Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests; German version EN 13501-1: 2007+A1: 2009", edition 2010.

1. Description of the building product

Self-adhesive film consisting of a PVC-film, on which is laminated a polyester film.

Kind of the self-adhesive layer: Acrylic adhesive

Thickness of the film „3662-190": 0.05 mm

Thickness of the film „SG 8991": 0.1 mm

Overall thickness, adhesive layer inclusive (without protection film): approx. 0.27 mm

Total weight per unit area (without protection film): approx. 355 g/m²

Colour: white

The film is used on metallic substrates.

2. Test reports and test results, which form the basis of the classification

2.1 Test reports

Name of the labo-ratory	Sponsor	Number of the test report	Test method
MPA NRW	3M Deutschland GmbH Carl-Schurz-Straße 1 41453 Neuss GERMANY	230010820-1 of 13.12.2016	**DIN EN 13823**
MPA NRW	3M Deutschland GmbH Carl-Schurz-Straße 1 41453 Neuss GERMANY	230010820-2 of 13.12.2016	**DIN EN ISO 11925-2**

2.2 Test results

Test method	Number of tests	Parameter	Test results	
			Continuous parameter Average values	Discrete parameter
DIN EN 13823	3	$FIGRA_{0,2}$ (W/s)	425.7	--
		$FIGRA_{0,4}$ (W/s)	425.7	--
		THR_{600s} (MJ)	3.4	--
		LFS < outer edge	--	yes
		SMOGRA (m²/s)	57.3	--
		TSP_{600s} (m²)	64.3	--
		Flaming droplets/particles (s)	0	--

Test method	Number of tests	Parameter	Test results	
			Continuous parameter Average values	Discrete parameter
DIN EN ISO 11925-2	6 x K and 6 x F	$F_S \leq 150$ mm Flaming droplets/particles	-- --	yes no

Remark: K = tested with flame exposure to the edge, F = tested with flame exposure to the surface

3. Classification and direct field of application

3.1 Reference

The classification was carried out in accordance with clauses 11. and 14.1 of the standard DIN EN 13501-1: 2010.

3.2 Classification

The classification assigned to the material with regard to its reaction to fire is   **D**

The additional classification with regard to smoke production is   **s2**

The additional classification with regard to flaming droplets/particles is   **d0**

This results in the following reaction to fire classification of the material:

Reaction to fire	Smoke produc-tion	Flaming droplets/particles
D	**s2**	**d0**

d. h.   ***D – s2, d0***

3.3 Anwendungsbereich des Produktes

The classification is solely valid for the building product described in clause 1, when it is glued onto substrates made of metal with a melting point equal or higher than 1000 °C and with a thickness of at least 0.6 mm.
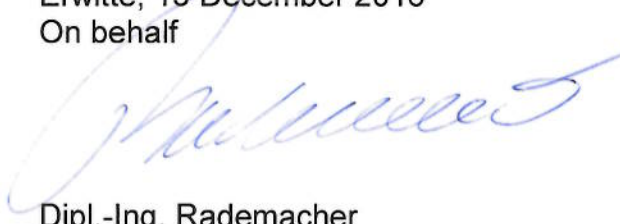
4. Restrictions

This classification report does not replace any type approval or certification of the product.

This classification report written in English language is issued additionally to the report written in German language with the same report number. In case of doubt, the German version is solely valid.

Erwitte, 13 December 2016
On behalf

Dipl.-Ing. Rademacher
Head of the testing body

Date of issue of this English version: 15 December 2016